VRANA, B.

Welding in our automobile production

p. 63 (Automobil) Vol. 1, no. 2, Feb, 1957 Fraha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LG, VCL. 7, NO. 1, Jan. 1958

"Tractors at the 28th International Exhibition of Agricultural Machinery in Paris."

"Some ways for reaching the world level of farm machinery in respect to weight and material."

p. 161 & 166 (Zemedelske Stroje) Vol. 2, no. 7, July 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

VRANA, B.

Welders' suggestions for improvement.

p. 433 (Strojirenska Vyroba) Vol. 5, no. 9, Sept. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (SEAI) LC, VOL. 7, NO. 1, JAN. 1958

"Contribution to the discussion of M. Benes' article."

p. 296 (Zvaranie) Vol. 6, no. 10, Oct. 1957 Prague, Czechoslovakia

SD: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

VRANA, Bohumir

Inflammations of the biliary tract in infancy. Cosk. pediat. 16 no.7/8: 629-633 Jl-Ag '61.

1. Detake oddeleni OUNZ v Ceskem Tesine, primar MUDr. Boh. Vrana.

(CHOLANGITIS in inf & child) (CHOLECYSTITIS in inf & child) (PEDIATRICS diseases)

PHASE I BOOK EXPLOITATION

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g. Opatii (Twelfth Annual Assembly of the International Institute of Welding, Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000 copies printed.

Sponsoring Agency: Natsional nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French, and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva, L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik; Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for welding specialists and the technical personnel of various production and repair shops,

Card 1/

29 SOV/5975 Twelfth Annual Assembly (Cont.) COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references. TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here] PART I. THE STUDY OF REPAIR-WORK TECHNIQUES Foreword (PROCESSES, METHODS, PREPARATION, HEATING, AND OTHER TYPES OF PROCESSING CONTROL) Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts 36 Card 2/9

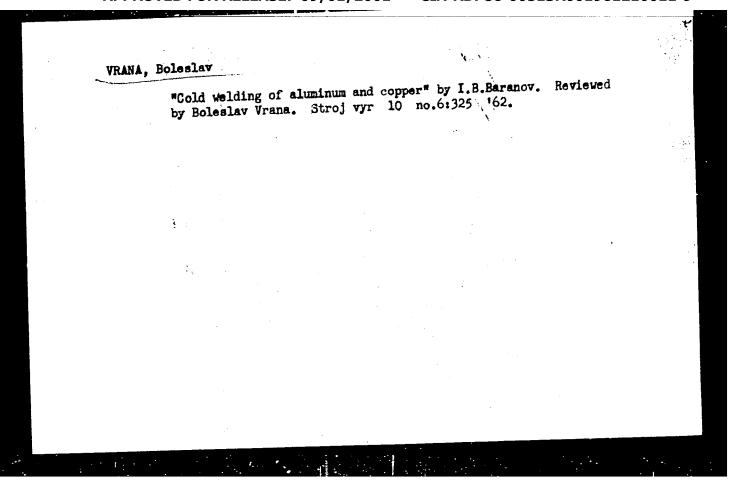
Twelfth Annual Assembly (Cont.)	SOV/5975
Genkin, I. Z., and A. F. Zolotarskiy (USSR). Increasing the Strength and Extending the Service Life of Welded Rails and From	g s 172
Vegrzhin, Zh. (Poland). Alloying Fluxes for Restoring Parts by Submerged Arc Welding	182
Chikara, M. (Yugoslavia). Thermite Welding in Restoring Rails Certain Characteristics Obtained in Testing Welded Joints	s; 224
PART III. TYPICAL EXAMPLES OF PARTS RECLAMATIO (ROLLING STOCK, SHIP STRUCTURES, MINING AND METALL EQUIPMENT, MACHINES, AND TOOLS)	N LURGICAL
Vrana, B. (Czechoslovakia). Practices in the Repair of Cutting Tools With the Use of Welding Processes	291
Card 5/9	

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961210011-9"

VRANA, B.

Reducing production cost by the use of welding in assembly-line production. p.15. (Zvaranie, Vol. 6, No. 1, Jan. 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.



VRANA, B.

New method of welding by friction. p.105. (Zvaranie, Vol. 6, No. 4, Apr. 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

AGRICULTURE

PERIODICAL: ZEMEDELSKE STROJE, VOL. 3, no. 12, Dec. 1958

Vrana, B. Some problems of the tractor four-wheel drive and the design of the Zetor Super 4 tractor. p. 268.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 5, May 1959, Unclass.

VRANA, Bohumir; MATIS, Frantisck; MALY, Bohumir; DEMEL, Josef

Congenital obliteration of the gastrointestinal lumen. Cesk. pediat. 14 no.2:130-133 5 Feb 59.

1. Detske oddeleni nemocnice OUNE v C. Tesine, prednosta dr. B. Vrana
Chirurg. oddeleni nemocnice OUNE v. G. Tesine, prednost dr. F. Matis
Chirurg. oddeleni nemocnice KUNE v Ostrave-Zabrehu, prednosta dr. K.
Chirurg. Detske oddeleni KUNE v Ostrave-Zabrehu, prednosta dr. B. Vranova.

(CASTROINTESTINAL SYSTEM, abnorm.

obliteration of lumen (Cz))

VARIA, E.

VRAMA, b. Frinciples of the construction of elements for welding presses; function of welding elements. . 130.

Vol. 3, No. 1/2, 1954 SVARACSYY SECRNIK TECHNOLOGY Eratislava, Czechoslovakia

So: Best Europeon Accessions, Vo. 5, No. 5, May 1956

"Welding Technique Exhibit." p. 120.

ZVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojarenstva). Bratislava, Czechoslovakia, Vol. 8, No. 4, Apr. 1959.

Monthly list of East European Accessions (EFAI), LC, Vol. 8, No. 8, August 1959. Uncla.

Welding under a flux at the Klement Gottwald Automobile Works in Prague, p. 365, ZVARANIE (Ministerstvo hutneho prumhslu a rudnych bani a Ministerstvo strojarstvo) Baratislava, Vol. 3, No. 12, Dec. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

Replacing forgings and castings by welds, p. 206, STROJIRENSKA VYROBA (Ministerstvo strojirenstvi) Praha, Vol. 3, No. 5, May 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 195

VRANA, B.

Equipment for 100 per cent tightness control of welded parts produced in series, by means of water pressure. Zvaranie 12 no.9:267-268 S:63.

1. Technolog svarovani, Automobilove zavody Letnany, Zavody Klementa Gottwalda, Praha.

BELYAKOV, V.A.; VEKSLER, V.I.; VIRYASOV, N.M.; VRANA, I.; KIM KHI IN; KLODNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MIKHUL, A.; NGUYEN DIN TY; SOLOV'YEV, M.I.; KHOFMOKL', T.; CHEN LIN-YAN'

Production of $\overline{\Lambda}$ -hyperons by 7-8 Bev. negative $\overline{//}$ -mesons on hydrogen. Zhur. eksp. i teor. fiz. 45 no.2:88-89 Ag 163. (MIRA 16:9)

1. Obwyedinennyy institut yadernykh issledovaniy. (Hyperons) (Mesons) (Nuclear reactions)

2014,	Evaranie 12 no.8	

VRANA, Boleslav

For high and permanent quality of welds. Zvaranie 12 no.10: 277-284 0 '63.

1. Automobilove zavody Letnany, Zavody Klementa Gottwalda, Praha.

VRANA, B. - Zvaranie - Vol. 4, no. 2, Feb. 1955.

Welded or riveted frames for motor vehicles. p. 44.

SO: Monthly list of East European Accessions, (EFAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

VRANA, B.

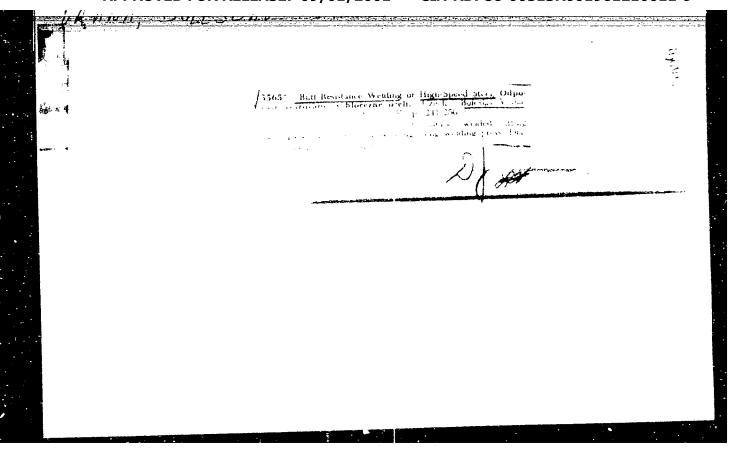
Discussion of the article "Full Utilization of Welding Technology"; also, remarks by J. Motyka. p. 502. STROJIRENS'A VYRODA. (Ministerstvo strojirenstvi) Praha. Vol. 3, no. 12, Dec. 1955.

SOURCE: Cast European Accessions List, Vol. 5, no. 9, September 1956

VRANA, Boleslav, nositel radu

From the life of a socialist work brigade in Automobilove zavody Letnany, Zavody Klementa Gottwalda Praha (Automobile Factory Letnany, Klement Gottwald Factory Prague). Zvaranie 11 no. 6:188-189 Je 62.

1. Automobilove zavody Letnany, Zavody Klementa Gottwalda Praha.



Government's decision on mechanization in the industry relative to to resistance welding. p. 260.

ZVARANIE

Vol. 4, no. 9/10, Sept. 1955.

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

VALUE, B.

How technical literature helps my work. F. 269.
Propagating methods of the best workers. P. 270.

SC: East European Accessions List, Vol. 5, No. 9, Cept. 1954, Lit. of Congress.

While, B.
Automatic pressure welding on the welding press. F. 201.
S6: East European Accessions List, Vol. 3, No. 9, Sept. 1994, Lib. of Congress

VRANA, B.

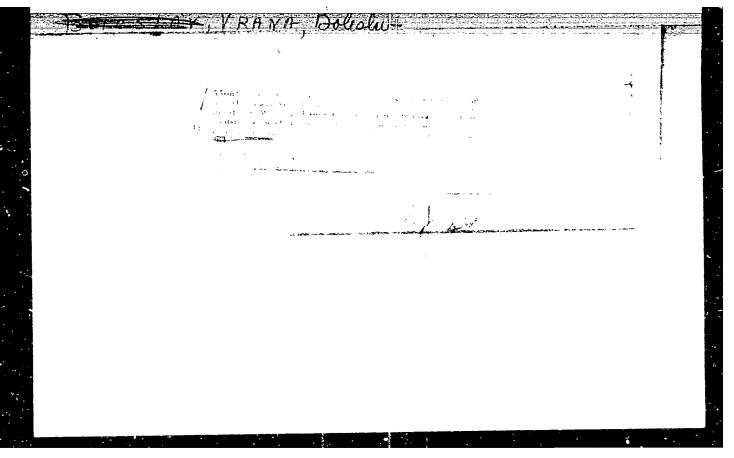
Repairing complicated tools by welding. p. 24. (Zvaranie, Vol. 4, no. 1, Jan. 1955, Praha.)

SO; Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

VRANA, B. SMOK, J.

Conference on welding in the works of the Ministry of Machine Manufacture. p. 65. (Zvaranie, Vol. 4, no. 3, Mar. 1955, Praha.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.



	. .	_					_					_	_	
3 ():	Mast	European	Accession	List,	Vol.	3, No.	9.	Septe	mber 1	954,	Lib.	of	Cong	

WHAMA, B. "How Technical Literature Helps my Work." p. 269, Praha, Vol. 2, no. 6, June 1954. "Propagating Methods of the Best Workers." p. 270, Praha, Vol. 2, no. 6, June 1954. SO: East Buropean Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

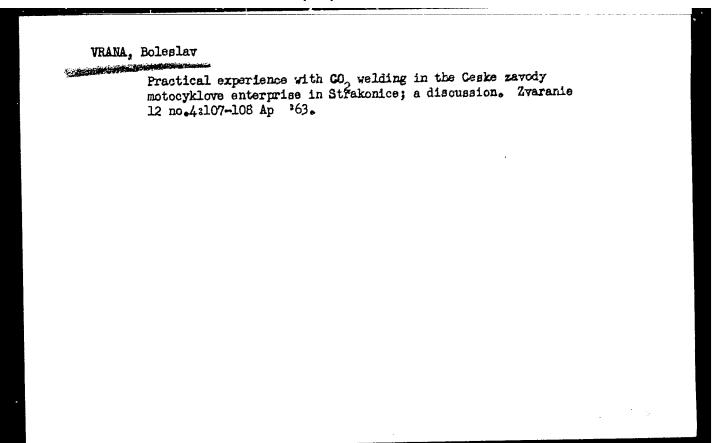
UHRIN, P.; VRANA, B.

Congenital absence of the thyroid and prolonged icterus neonatorum. Cesk.pediat.16 no.3:254-257 Wr 161.

1. Endokrinologicky ustav v Lubochni, riaditel MUDr. E. Spanar a detake oddelenie OUEZ; Cesky Tesin, prednosta MUDr. B. Vrala.

(THYROID GLAND abnorm)

(ERITHROBLASTOSIS FETAL compl)



RETOVSKY, R.; KLASTERSKA, Irona; VRANA, Dagmar

Study of the growth and development of chlorella populations in the culture as a whole. VII. The influence of different light-night periods on the life cycle of chlorella cells. Folia microbiol. 7 no.6:372-382 '62.

1. Department of Technical Microbiology, Institute of Microbiology, Czechoslovak Academy of Sciences, Prague 6.

(ALGAE) (LIGHT)

8/056/63/044/001/017/067

Veksler, V. I., Viryesov, N. M., Vrana, I., Kim Khi Im, Kladnitakaya, Ye. H., Kuznetsov, A. A., Mguyen Din Ty, Solov'yev, M. I., Khofmokl', T., Chen Ling-yen

The polarisation of A-hyperons produced in a p-interactions TITLE:

at an energy of 7 - 8 Bev

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fisiki, v. 44.

no. 1, 1963, 84 - 99

TEXT: 60000 photographs were examined of the interaction of x -mesons of 7 - 8 Bev/c with protons in a 24-liter propane bubble chamber in a permanent magnetic field of 13,700 ce. Method and apparatus have already been described (Wang Kang-ch'ang, M. I. Solov'yev, Yu. M. Shkobin. PTE, 1, 41, 1959; M. I. Solov'yev, Proc. of the 1960 Ann. Int. Conf. on High Energy Physics at Rochester, p. 368; Wang Kang-ch'ang et al. ZhETF, 39, 1854, 1960). The A-hyperons were unpolarised during their production. This follows from the fact that there is no asymmetry in the angular distributions of the protons from the decay of the A-hyperons relative to the hyperon mementum. The angular distributions of the A-hyperon produc-Card 1/2

The polarise	ion of A -hyperons	S/056/63/044/001/017/067 B108/B180	•
tion planes	elative to the production potropic. The results agree ong interactions involving 4 tables.	lanes of the K-mesons and pions with the law of conservation of strange particles. There are	1
ASSOCIATION:	Ob"yedinennyy institut yad Institute of Muclear Resea	trop)	
SUBMITTED:	July 31, 1962		
			•
	의 경험 회원 한 경험 등 등 하는 것이 되었다. 생산물 기업		

BELYAKOV, V.A.; VAN YUN-CHAN [Wang Yung-ch'ang]; VEKSLER, V.I.; VIRYASOV, N.M.; VRANA, I.; DU YUAN'-TSAY [Tu Yuan-ts'ai]; KIM KHI IN; KLODNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MIKHUL, E.; NGUYEN DIN TY; PATERA, I.; PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.; KHOFMOKL', T.; CHEN LIN-YAN'; MIKHUL, A. [Mihul, A.]

Study of A-hyperon and Ko-meson production in 77-p-interactions at an energy of 7 - 8 Billion Electron Volts. Zhur.eksp. i teor. fiz. 44 no.2:431-443 F 63. (MIRA 16:7)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Sotrudnik Instituta atomnoy fiziki v Bukhareste (for Mikhul).

VEKSLER, V.I.; VIRYASOV, N.M.; VRANA, I.; KIM KH IN; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.; NGUYEN DIN TY; SOLOV'YEV, M.I.; KHOFMOKL', T.; CHEN LIN-YAN'; SARANTSEVA, V.R., tekhn. red.

[Polarization of Λ -hyperons produced in \mathcal{J} -p-interactions at an energy of 7-8 Bev] Izuchenie poliarizatsii Λ -giperonov pri rozhdenii v \mathcal{J} -p-vzaimodeistviiakh s energiei 7-8 Bev. Dubna, Obmedinennyi in-t iadernykh issl., 1962. 23 p. (MIRA 15:10) (Hyperons-Decay) (Masons-Decay) (Protons)

8/056/63/044/002/007/065 B102/B186

AUTHORS:

Belyakov, V. A., Wang Yung Ch'ang, Veksler, V. I., Viryasov, N. M., Vrana, I., Tu Yuan-ts'ai, Kim Khi Ying, Kladnitskaya, Ye. N., Kuznetsov, A. A., Mikhul, E. Nguyen

Din Ty, Patera, I., Penev, V. N., Sokolova, Ye. S.,

Solov'yev, M. I., Khofmokl', T., Cheng Ling-yen, Mikhul, A.

TITLE:

Investigation of Λ -hyperon and K^0 -meson production

processes in π p interactions at 7-8 Bev

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,

no. 2, 1963, 431-443

TEXT: The c.m.s. momentum and angular distributions determined for the Λ and K^{O} particles produced in πp interactions are given and discussed. The measurements were made using a 24-liter propane bubble chamber in a field of 13,700 oe. The total momentum spectrum of the A-hyperons produced in the reactions

(1) $\pi^- + \rho \rightarrow \Lambda(\Sigma^0) + K^0 + n\pi$,

(2)

Card 1/7

S/056/63/044/002/007/065 B102/B186

Investigation of A-hyperon ...

are shown in Fig. 1, compared with theoretical results. As it may be seen the statistical theory describes the experimental curve very well if the isobars and, the cases with $p_p-p=\Delta<700$ MeV are neglected. $\Delta<700$ MeV corresponds to $\sim30\%$ of all Λ , these being produced in peripheral interactions. The Λ angular distribution has a distinct backward peak $(\vec{n}_{\Lambda}/\vec{n}_{\Lambda}=0.18\pm0.02)$. With increasing multiplicity n_g the agreement between experiment and statistical theory improves. The Λ angular distribution and the distribution with respect to p_{Λ} is virtually independent of n_g . The overall mean of the transverse momentum is 383 ± 12 MeV/c; for $\Delta<700$ MeV, $\vec{p}_{\Lambda_1}=295\pm14$ MeV/c and for $\Delta>700$ MeV, $\vec{p}_{\Lambda_2}=432\pm18$ MeV/c. For the $K^0(\vec{K}^0)$ mesons produced in the reactions

Carcl 2/7

Investigation of Λ -hyperon $ \pi^{-} + \rho \rightarrow \begin{cases} K^{0} + \Lambda(\Sigma^{0}) + n\pi, & (1) \\ K^{0} + \overline{K}^{0} + N + n\pi, & (3) \\ K^{0} + K^{-} + N + \pi n, & (4) \\ \overline{K}^{0} + K^{+} + N + n\pi, & (5) \\ K^{0} + K^{\pm} + n\pi. & (6) \end{cases} $
*** * * * * * * * * * * * * * * * * * *
$(K^0 + \overline{K}^0 + N + n\pi, $ (3)
$\pi^{-} + n \rightarrow (K^{0} + K^{-} + N + \pi n,$ (4)
$\overline{K}^0 + K^2 + N + n\pi, \tag{5}$
(6)
the total momentum spectrum measured (Fig. 4) is weaker than that calculate according to the statistical theory. The angular distribution (Fig. 5) has besides the isotropic part, a forward peak ($n / n = 1.61 \pm 0.15$). The production events the momentum distributions are, for a rising in Λ -production events the momentum distributions are, for $p_{\pi}^{*} \geq 400 \text{ MeV/c}$, well described by the statistical theory without taking the isobars into account; for $p_{\pi}^{*} < 400 \text{ MeV/c}$ it is higher than that obtained from theory. The angular distributions for $n = 2$, 4, 6 are

Card 3/7

characterized by

Investigation of Λ -hyperon ...

S/056/63/044/002/007/065 B102/B186

$$\vec{n}_{\pi^+}/\vec{n}_{\pi^+} = r_1 + 0 \pm 0.12$$
, $\vec{n}_{\pi^-}/\vec{n}_{\pi^-} = 1.40 \pm 0.13$.

The mean number of π^0 mesons produced per π p interaction with Λ production is 1.23 ± 0.14. The angular distribution of π arising in stars with K^0 production has a flat forward maximum $(\vec{n}_{\pi} - / \vec{n}_{\pi} = 1.10 \pm 0.10)$. The mean number of charged particles produced together with Λ is $n_g = 2.22 \pm 0.13$ which agrees closely with the statistical theory without the isobars. The main part of Λ and K^0 is produced in two-pronged stars. The admixture of $K^0 \times \mathbb{Z}^{\pm}$ pairs amounts to less than 20% of the number of $K^0 \times \mathbb{Z}^{\pm}$ pairs amounts to less than 20% of the number of $K^0 \times \mathbb{Z}^{\pm}$ pairs. The momentum distribution of charged pions from π p interactions with Λ -hyperon production are characterized by $p_{\pi^+}^* = 425 \pm 16$ MeV/o and $p_{\pi^-}^* = 444 \pm 15$ MeV/c. From a comparison of these angular distributions it is concluded that processes involving Λ K or $K\bar{K}$ pair production are with is concluded that processes of multiple pion production. If one divides the π -p interactions with strange particle production into head-on Card 4/7

8/056/63/044/002/007/065 B102/B186

Э,

Investigation of Λ -hyperon ...

and peripheral collisions one can say that those involving $K\overline{K}$ pair production are rather of the head-on type than those with ΛK pair production. There are 15 figures and 2 tables.

ASSOCIATION:

Ob"yedinennyy institut yadernykh issledovaniy (Joint Insti-

tute of Nuclear Rosearch)

SUBMITTED:

July 31, 1962

Fig. 1. Total momentum spectrum of hyperons; dashed line: without correction for recording probability; shaded area; events with Δ < 700 MeV; curves obtained from statistical theory with (I) and without (II) isobars, and without the events with Δ < 700 MeV (II').

Fig. 4. KO total momentum spectrum.

Fig. 5. Ko total angular distribution.

Card 5/7

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210011-9

WRANA, T.

FELWADY, V.A., MAND VERS-CHARS, VERLER, V.I., VIRVAROW, H.H., VENNA, I.,

HE INSTIT. IN FAIRED, V. INNEY, COMMING, V. S., COLOUISE, H.I.,

ROUBLE, INIO TI, I. FAIRED, V. INNEY, COMMING, V. S., COLOUISE, H.I.,

When investigation of Allypron and K²-Venen Production in \$\tilde{\alpha}\$ and

Interactions at 7-5 Gev*

report presented at the Intl. Conference on High Energy Physics, Geneva,

k-11 July 1962

Joint Institute for Nuclear Pencarch

Laboratory of High Energies

VAN GAN-CHAN [Wang Kang-ch'ang]; VAN TSU-TSEN [Wang TS'u-tseng]; VEKSLER, V.I.; VRANA, I.; DIN DA-TSAO [Ting Ta-ts'ao]; IVANOV, V.G.; KALDNITSKAYA, Ye.H.; KUZHZTSOV, A.A.; HEUYEN DIN TY; HIKITIN, A.V.; SOLOV'YEV, M.I.; KHOFMOKL', T.; CHEN LIH-YAN'

Nonconservation of parity in strong interactions with participation of strange particles. Zhur. eksp. i teor. fiz. 39 no. 6:1854-1856 D '60. (MIRA 14:1)

1. Obryedinennyy institut yadernykh issledovatniy. (Particles (Muclear physics))

S/056/60/039/006/062/063 B006/B063

24.6900 AUTHORS:

Van Gan-chan, Van Tsu-tszen, Veksler, V. I., Vrana, I., Din Da-tsao, Ivanov, V. G., Kim Khi In, Kladnitskaya, Ye.N., Kuznetsov, A. A., Nguyen Din Ty, Nikitin, A. V., Solov'yev, M. I., Khofmokl', T., Chen Lin-yan'

TITLE:

Non-conservation of Parity in Strong Interaction Involving Strange Particles

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 6(12), pp. 1854-1856

TEXT: The authors wanted to obtain an experimental proof for the non-conservation of parity in strong interaction. The proof suggested by Solov'yev for the longitudinal polarization of a \bigwedge^0 hyperon produced in nuclear collisions served as experimentum crucis. A number of experiments at low and medium energies failed. This "Letter to the Editor" presents the preliminary results of experiments with nuclear collisions and high energies. An analysis has been made of the angular asymmetries in decays of \bigwedge^0 hyperons produced in π p collisions at 7-8 Bev. A total of Card 1/3

Χ

Non-conservation of Parity in Strong Interaction Involving Strange Particles S/056/60/039/006/062/063 B006/B063

34,000 photographs were taken, 14,000 at 6.8 Bev/c and 20,000 at ~ 8 Bev/c. Altogether, 175 Λ and 33 Λ° or K° particles were detected; the systematic error in the 208 events was $\frac{1}{2}$ 6 particles. The asymmetry in the Λ° decay was studied in the coordinate system shown in the accompanying figure. The asymmetry in the frangular distribution is the up-down asymmetry $(\alpha \overline{P}_2)$, that of θ_+^* is the forward-backward asymmetry $(\alpha \overline{P}_1)$, and that of ψ_+^* is the right-left asymmetry $(\alpha \overline{P}_2)$. $\alpha \overline{P}_1$ was calculated from the formula $\alpha \overline{P}_1 = \frac{3}{N} \sum_{i=1}^{N} \cos \theta_i^* + \sqrt{3} \left[1 - (\alpha \overline{P})^2\right]/N$, where α is the asymmetry factor of the Λ° hyperons in the case of total polarization $(\overline{P} = 1)$; \overline{P}_1 is the mean polarization of Λ° ; θ^* is the angle between the Λ° decay proton and the direction of motion of the Λ° particle. The other asymmetries were calculated analogously. Results are collected in Table 2. Right-left and up-down asymmetries were not observed. The forward-backward asymmetry obtained may indicate the non-conservation of parity in strong interaction for strange particle production; however, the present stage of investigation does not exclude all errors. The investigations

Card 2/3

Non-conservation of Parity in Strong Interaction Involving Strange Particles S/056/60/039/006/062/063 B006/B063

are being continued. There are 1 figure, 2 tables, and 8 references: 3 Soviet and 5 US.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint

Institute of Nuclear Research)

SUBMITTED:

September 1, 1960

Таблица

. ^p Λ•	N	$a\overline{P}_i$	αP _s	α P g
400 <p<sub>Λ.≤1200</p<sub>	104 104 + (4) 104 + (4) + (6)	-0.58 ± 0.15 -0.50 ± 0.15 -0.37 ± 0.15	0,00 ± 0,17 0,06 ± 0,16	0,03 ± 0,17 0,07 ± 0,16
P _A •>1200	68 68 + (29)	-0.66 ± 0.19 -0.09 ± 0.17	0.14 ± 0.21 0.06 ± 0.17	0,24 ± 0,21 0,21 ± 0,17
Bce p _{A*}	$ \begin{array}{c c} 172 \\ 172 + (33) \\ 172 + (33) + (6) \end{array} $	-0.61 ± 0.12 -0.31 ± 0.12 -0.24 ± 0.12	0.05 ± 0.13 0.00 ± 0.12	0,11 ± 0,13 0,12 ± 0,12

Card 3/3

S/056/61/040/002/012/047 B102/B202

AUTHORS:

Wang Kang-ch'ang, Wang Ts'u-tseng, Veksler, V. I., Vrana, I., Ting Ta-ts'ao, Invanov, V. G., Kladnitskaya, Ye. N., Kuznetsov, A. A., Nguyen Din Ty, Nikitin, A. V., Solov'yev,

M. I., Ch'eng Ling-yen

TITLE:

Production of $\Lambda^{0}(\Sigma^{0})$ hyperons and K mesons in $\tau^{-}p$ interactions with a τ^{-} meson momentum of 6.8 ±0.6 Bev/c

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 2, 1961, 464-474

TEXT: The $\Lambda^{\circ}(\Sigma^{\circ})$ and K° production in τ p collisions has hitherto been studied only for threshold momenta of (0.9-1.4) Bev/c; to explain the nucleon structure and the interaction, studies must be made at higher energies. The studies described were made with a 24-liter propane bubble chamber and a constant magnetic field of 13,700 oe. The experiment is described in Ref. 2 (ZhETF, 38, 426, 1960). The pictures were taken with a stereophotocamera with "Russarplazmat" objectives (focal length 67 mm). The pictures were evaluated 2 or 3 times with stereo-magnifiers and reprojectors.

Card 1/11

S/056/61/040/002/012/047 B102/B202

Production of ...

In this case, efficiency was 91 and 96%. Λ° and K° particles were selected according to rigorous rules. Altogether, 233 events conforming to these criteria were observed: space coordinates, angles, and momenta of these events were calculated by the electronic computer "Ural". The values obtained were geometrically corrected (consideration of the observation probabilities for Λ° and K° decays in the chamber volume as well as for Λ° and K° production). The number of events, in which 0, 2, 4, or 6 charged particles were observed besides K° and/or Λ° particles are given in Table 1. The mean number of charged particles accompanying a Λ° or K° production was 2.5±0.1; also K^{+} mesons were observed among these charged particles. The neutral particles recorded were produced in the reactions

$$\pi^{-} + p \rightarrow \Lambda^{0} + K^{0} + n\pi$$

$$\pi^{-} + p \rightarrow \Sigma^{0} + K^{0} + n\pi$$

$$\pi^{-} + p \rightarrow \Lambda^{0} + K^{+} + n\pi$$

$$\pi^{-} + p \rightarrow \Sigma^{0} + K^{+} + n\pi$$

$$\pi^{-} + p \rightarrow K^{0} + K^{-} + N + n\pi$$

$$\pi^{-} + p \rightarrow K^{0} + K^{-} + N + n\pi$$

$$\pi^{-} + p \rightarrow \overline{K}^{0} + K^{+} + N + n\pi$$

$$\pi^{-} + p \rightarrow \overline{K}^{0} + K^{+} + N + n\pi$$

$$\pi^{-} + p \rightarrow \overline{K}^{0} + K^{+} + N + n\pi$$

Card 2/11

```
5/056/61/040/002/012/047
                                                                                                       3102/3202
   Production of ...
                                               \sigma\left(Y^{0}K^{+}\right)=\sigma\left(3\right)+\sigma\left(4\right), also the reactions
    \sigma\left(Y^{0}K^{0}\right)=\sigma\left(1\right)+\sigma\left(2\right),
                                                                \sigma\left(\overline{K}^{0}K^{+}\right) = \sigma\left(7\right)
                               \sigma\left(K^{0}K^{-}\right) = \sigma\left(6\right),
\sigma\left(K^{0}\overline{K^{0}}\right) = \sigma\left(5\right),
                                                                                                                                                              (8,9)
                                                                                       \pi^- + p \rightarrow \Sigma^{\pm} + K^0 + n\pi
                                                                                                                                                               (10)
         \sigma(Y^{0}K^{0,+}) = \sigma(Y^{0}K^{0}) + \sigma(Y^{0}K^{+}),
                                                                                        \pi^- + p \rightarrow \Xi^- + K^0 + K^+ + n\pi
           \sigma(K^{0}, \overline{K}) = \sigma(K^{0}\overline{K}^{0}) + \sigma(K^{0}K^{-}) + \sigma(\overline{K}^{0}K^{+}).
                                                                                                                                                                (11)
                                                                                        \pi^{-} + p \rightarrow \Xi^{0} + K^{0} + K^{0} + n\pi
    were possible. In the following, the reactions are referred to only by
    these figures; the cross sections are indicated by (I). The total cross section of \Lambda^0(\Sigma^0) and K^0 production on free protons was found to be
    2.0 \pm 0.35 mb taking account of all corrections, including the \mu^{-} admixture
    and the efficiency of observation. In this case,
    \sigma(Y^{\circ}K^{\circ}, +) = 0.8 \pm 0.25 \text{ mb}, \ \sigma(K^{\circ}\bar{K}) = 1.2 \pm 0.3 \text{ mb}, \ R = c(Y^{\circ}K^{\circ}, +)/\sigma(K^{\circ}\bar{K})
    =0.7 \pm 0.2. Momentum and angular distributions are illustrated in several diagrams. The mean transverse momenta of \kappa and \kappa particles, 388 \pm 35 and
     393 \pm 35 Mev/c, respectively, were equal within the limits of measurement errors. Y K ^{\circ}, ^{+} - and K ^{\circ} pair production cross sections: The experimental
    results indicate that at \tau energies of 9 Bev, the K^{\circ}K pair production cross section is higher than that of Y^{\circ}K^{\circ}, The ratio reads
     Card 3/11
```

S/056/61/040/002/012/047 B102/B202

Production of ...

$$R = \frac{\sigma(Y^{\circ}K^{\circ}) + \sigma(Y^{\circ}K^{+})}{\sigma(K^{\circ}\overline{K}^{\circ}) + \sigma(K^{\circ}K^{-}) + \sigma(\overline{K}^{\circ}K^{+})} = 0.7\pm0.2.$$

The authors only studied
$$K^{\circ}\bar{K}^{\circ}$$
, $K^{\circ}K^{-}$, and $\bar{K}^{\circ}K^{+}$, and obtained
$$R = \frac{\sigma(Y^{\circ}K^{\circ}) + \sigma(Y^{\circ}K^{+})}{\sigma(K^{\circ}\bar{K}^{\circ}) + \sigma(K^{\circ}K^{-}) + \sigma(\bar{K}^{\circ}K^{+}) + \sigma(\bar{K}^{+}K^{-})} = 0.5\pm0.15.$$

Near the production threshold (0.96 Bev), $\sigma(Y^{O}K^{O}) = 1.1$ mb; it drops to 0.4 mb at 1.2 Bev, and increases again to 0.6 mb at 1.3 Bev. The ratio $\sigma(Y^0K)/\sigma(K^0\overline{K})$ was experimentally determined to be 0.7; the theoretically obtained value (statistical theory) was 7.5. Mean multiplicity of charged particles: At 6.8 Bev, not only strange particles but also charged and uncharged particles were produced. In the case of multiple pion production, the mean number of charged particles was $\bar{n}_s = 3.2\pm0.2$, and in strange-particle production, $\bar{n}_s = 2.5\pm0.1$. Pions constitute the main part of charged particles. It can be concluded from the energy balance in a production event that the number of pions produced together with a strange particle is lower than in the case of ordinary multiple pion production. This is in Card 4/11

S/C56/61/040/002/012/047 B102/B202

Production of and

agreement with the experimental results. The number of neutral pions accompanying strange-particle and normal multiple production is 2:3. 0.5+0.12 was obtained for nK. Angular and momentum distributions: The experimental results are illustrated in diagrams. In the center-of-mass system, the A hyperons show a strong tendency to depart in backward direction (n_{forw.}/n backw. = 1:5). This asymmetry was also observed in Λ°K° pairproduction events. Table 4 gives numerical data concerning the angular distribution of A and K pairs in the c. m. s. Mesons produced together with Λ^0 hyperons show a forward anisotropy at $\bar{v}_s = 2 \left(n_g \right)_{forw} / n_{g-backw}$ =1.7±0.5). At higher values of n_e, this anisotropy is less distinct. Trans-, verse momenta; One of the most interesting results was that $\Lambda^{\mathbf{O}}$ hyperons and nucleons produced in inelastic collisions without strange-particle production had the same distribution and the same mean transverse momenta which are independent of multiplicity. The interaction radius in strange-particle production can be estimated from the root-mean-square transverse momenta. The authors obtained 4.10-14 cm. They thank D. I. Blokhintsev, M. A. Markov, V. I. Ogiyevetskiy, Chou Kuang-chao, I. V. Chuvilo, V. S. Barashenkov, V. G. Solov'yev for discussion, L. P. Zinov'yev, N. I. Pavlov, K. B. Chekhlov. Card 5/11

S/056/61/040/002/012/047 B102/B202

Production of

L. N. Belyayev for help in the experimental work, and T. Khofmokl² and Kim Khi Inu for assistance in the verification of the results. N. G. Birger and V. Belyakov are mentioned. There are 7 figures, 4 tables, and 9 references: 4 Soviet-bloc and 5 non-Soviet-bloc. The two references to English-language publications read as follows: Ref. 3: D. Glaser, Ann. Intern. Conf. on High Energy Physics at CERN, Geneva 1958; Ref 6: G. Maenchen, W. Fowler, W. Powell, R. Wright, Phys. Rev. 106, 850, 1957.

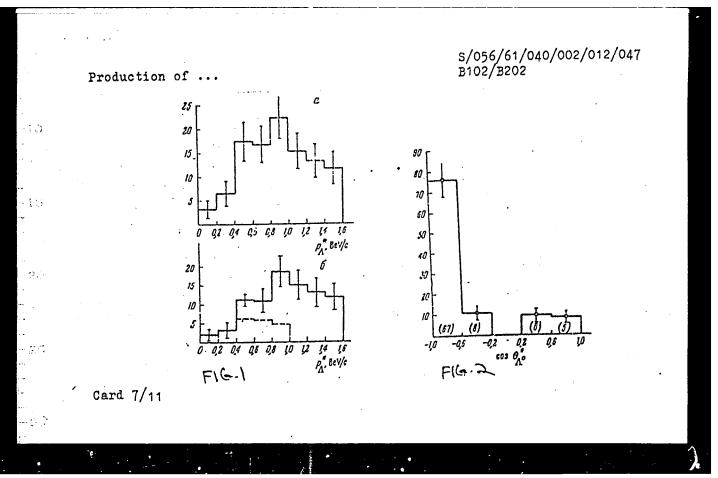
ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: September 1, 1960

Fig. 1: Momentum distributions of Λ° hyperons in the c. m. s.; a) total spectrum, b) that of backward (solid line) and forward (dashed line) emitted Λ° hyperons.

 Λ° hyperons. Fig. 2: Λ° angular distribution in the c. m. s.; number of events given in parentheses.

Card 6/11



APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961210011-9"

S/056/61/040/002/012/047 B102/B202

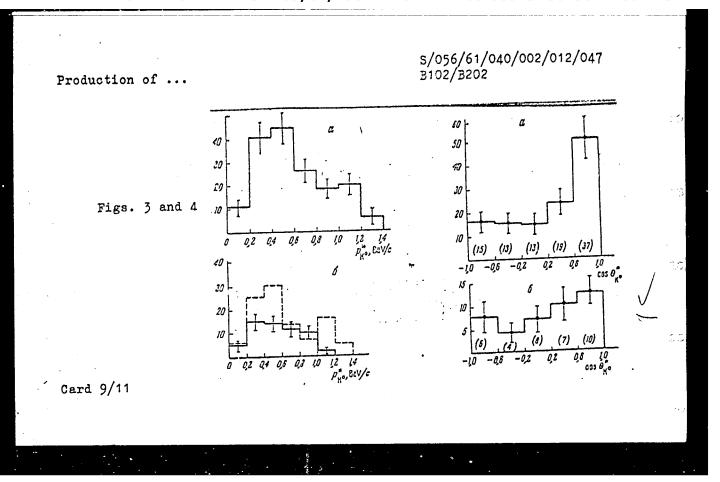
Production of ...

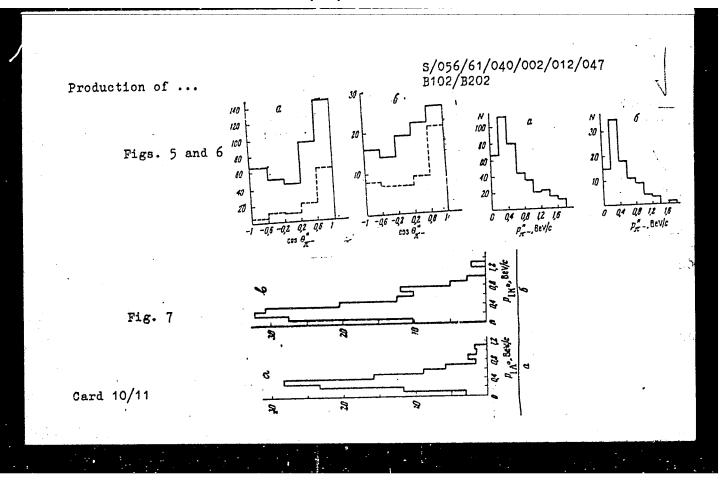
Fig. 3: K° momentum distributions in the c. m. s.; a) total spectrum, b) spectrum of forward and backward emitted K° mesons. Fig. 4: K° angular distributions, a) $n_s \stackrel{\checkmark}{=} 2$, b) $n_s \stackrel{?}{=} 4$.

Fig. 5: Angular distributions of τ mesons in the c. m. s., a) multiple production of τ by τ ; b) for τ produced together with Λ ; solid line: $n_s = 2 + 4 + 6$; dashed line: $n_s = 2$.

Fig. 6: τ^- momentum distribution in the c. m. s.; a) and b) the same as in Fig. 5. Fig. 7: transverse momentum distribution a) for Λ^0 hyperons, b) for K^0 mesons.

Card 8/11





APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961210011-9"

Production of ...

Legend to Table 1:
1) Identification of the particles, 2) sum, 3) number of charged particles.

S/056/61/040/002/012/047 B102/B202

			Τε	блиц	at	
Идентифицирован-	Число заряженных частиц, п5					
ные частици Д	1)	2	4	6	Суми.	
Λ ⁰ + Κ ⁰ Λ ⁰ + Κ ⁰ Κ ⁰ + Κ ⁰ Κ ⁰ Λ ⁰ μαμ Κ ⁰	2 6 0 16 2	8 47 5 62 6	3 17 1 26 2	0 3 0 3 0	13 73 6 107 10	
	26 12,5%	128 61,6%	49 23%	6 2,9%	209 100%	

Card 11/11

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210011-9

15

VRANA, I.

8/627/60/002/000/025/027 D299/D304

3.24/0

AUTHORS:

Penivesh, E., Frenkel', A., Telbits, P., Pernegr, Ya., Petrzhilka, V., Sedlak, Ya., and Vrana, I.

TITLE:

Investigating high-energy electron-photon cascade in

emulsions

'SOURCE:

International Conference on Cosmic Radiation. Moscow, 1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kas-kadnyye protsessy, 307-310

TEXT: The energy spectrum of the primary photon was determined; the energy spectrum of pairs formed at depths of up to 1.5 units was studied. The obtained spectra were compared with the distribution based on Bethe-Heitler's theory, and with that based on Migdal's formulas (a further development of the Landau approximation). The energy E of the primary photon was determined by the Chudakov-Perkins effect by the longitudinal and lateral shower development.

kins effect, by the longitudinal and lateral shower development, and also by Pinkau's method. The values for the primary energy,

Card 1/ 3

\$/627/60/002/000/025/027 D299/D304

Investigating high-energy ...

obtained by shower development in the approximations A and B, were underrated. A more accurate energy estimate is obtained by means of the curves of A. A. Varfolomeyev and I. A. Svetlolobov (Ref. 11; ZhETF, 36, 1771, 1959). The data of Ref. 11 yielded a higher value for the primary energy. In the following, a primary energy of 2-10¹² ev. is assumed. The energy of electron pairs was determined either by E. Lohrmann's method (Ref. 15: Nuovo Cim., 2, 1029, 1955) or by measuring multiple scattering. In some cases both methods were used. The results are shown in a table and in 2 figures which also exhibit (for comparison) two theoretical curves corresponding to Bethe-Heitler's and Migdal's formulas, respectively. The authors conclude that by studying only one or a few cascades, no definite decision can be made as to the validity of either Bethe-Heitler's or Landau-Migdal's theory. In this light, the present investigation should be considered as a contribution to the general statistics of should be considered as a contribution to the general statistics of cascades, investigations of a larger number of shower cascades being required before reaching a definite conclusion. The authors express their thanks to Professors Yanoshi, Farkas and Danysh. There

Card 2/3

Investigating high-energy ... S/627/69/002/000/025/027 D299/D304

are 2 figures, 2 tables and 18 references: 12 Scviet-bloc and 6 non-Soviet-bloc. Thereferences to the English-language publications read as follows: D. H. Perkins, Phil. Mag., 46, 1146, 1955; K. Pinkeu. Phil. Mag., 2, 1389, 1957; J. C. Butcher, B. A. Chartres and H. Messel. Nuc. Phys., 6, 271, 1958; J.Nishimura and K. Kamata, Prog. Theor. Phys., 7, 185, 1952.

ASSOCIATION: Tsentral'nyy issledovatel'skiy institut fiziki, otdeleniye kosmicheskikh luchey (Contral Research Institute of Physics, Cosmic Ray Section, Budapest); Pizicheskiy institut Akademii nauk (Physics Institute of the Academy of Sciences, Prague)

Card 3/3

VEKSLER, V.I.; VRANA, I.; KLADNITSKAYA, Ye.N.; KUZNETSOV. A.A.; MIHUL, A.K.; MIHUL, Ye.K.; NGUYEN DINH TU; PENEV, V.N.; SOLOV YEV, M.I.; HOPMOKI,T.; CHEN-LING-YEN.

On strange particle production in π^- b interaction. Dubna, Izdatel'skii otdel Ob*edinennogo in-ta iadernykh issledovanii, 1961. 9 p. (No subject heading)

VEKSLER, V.I.; VIRYASOV, N.M.; VRANA, I.; KIM KHI IN; KIADHITSKAYA, Ye.N.;

KUZMETSOV, A.A.; NGUYEN DIN TY; SOLOV!YEV, M.I.; KHOFMOKL', T.;

Polarization of hyperons produced in P-interactions at an energy of 7 - 8 Bev. Zhur. eksp. 1 teor. fiz. 44 no.1:

84-99 Ja '63. (MIRA 16:5)

1. Ob*yedinennyy institut yadernykh issledovaniy.

(Hyperons) (Mesons) (Nuclear reactions)

BELYAKOV, V.A.; VAN YUN-CHAN [Wang Yung ch'ang]; VEKSLER, V.I.;
VIRTASOV, N.M.; VRANA, I.; DU YUAN'-TSAY [Tu Yuan ts'ai];
KIM KHI IN; KLADHITSKAYA, Ye.N.; KUZHETSOV, A.A.;
MIKHUL, E.; NGUYEN, DIN TY; PATERA, I.; PENEV, V.N.;
SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.; KHOFMOKL', T.;
MIKHUL, A.

[Production of A-hyperons and Ko-mesons in T-p-interactions at an energy of 7-8 Bev] Issledovanie protsessov rozhdeniia A-giperonov i Ko-mezonov v JT-p-vzaimo-deistviiakh pri energii 7-8 Bev. [n.p. n.d.] 26 p.

(MIRA 16:10)

(Mesons) (Hyperons)

L 15462-63	FCS(f)/EWT(m)/BDS	AFFTC/ASD
ACCIDENT MOVE A	P407,5243	s/1056/63/045/002/0088/00d9 k v
Klabil skasa, Ye M. I.; Scimokl,	N., Kuzhetsey, A. A., P.; Chieng Ling-yen 14	Michael, A., Mouven Din T.T., Bolesiyev.
		by 7-8 GeV negative pions on hydrogen
SOURCE: Zhur. e	ksper. i teoret. fiz., v	7. 45, no. 2, 1963, 88-89
TOPIC TAGS: byp	eron production, antilar	obda, negative pion decay, cross section
reported, on the particle from the and the transver MeV. Selection ionization, and the production of the particle from t	basis of 42 V ^O events is edecay was greater than se momentum of the decay of the $\bar{\Lambda}$ hyperons was determination of the δ -ef Λ hyperons is found in	hyperons by 78 BeV negative pions are in which the momentum of the negative in the momentum of the positive particle is products was less than or equal to 100 by kenemative criteria, measurement of electron energy. The cross section for not to differ much from the cross section art. has I figure and I table.
	•	Ĩ.
Card 1/2		}
,uiu	The first state of the state of	can be supplementary the construction of the c

	ACCESSION NR: AP3005248 ASSOCIATION: Ob"yedinenny*y institut yaderny*kh reaktsiy (Joint Institute			
ASSOCIATION: Ob Muclear Research		yaderny*kn reaktsiy	(Joint Institute	
SUBMITTED: 13Ma	r63 DATE	: ACQ: 06Sep63	ENCL	: ∞
SUB CODE: PH	NO F	EF SOV: 003	OTHER	: 002
			•	
:				
		•		

ZAJIC, Jiri, inz. CSc.; VRANA, Jan, inz.; POKORNY, Jan, inz. CSc.

Bleaching of refined cotton seed fat acids. Prum potravin 15 no.91475-477 S 164.

1. Higher School of Chemical Technology, Prague.

VRANA, J.

Intercommunication service in the Stavmontaze National Enterprise in Brno. p. 252. (POZEMNI STAVBY, vol. 2, no. 8, Aug. 1954, Praha)

80: Monthly List of Rast European Accession, (EEAL), IC, Vol. 4, No. 11, Nov. 1955, Uncl.

VRAHA, J.

"Through better technical equipment to fulfillment of the Plan in the South Moravian Lignite Mines."
Uhli, Praha, Vol 3, No 4, Apr. 1953, p. 125

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

VRANA, J.

"Five Hundred Years of Czech Glass", P. 2, (TECHNICKE NOVINY, Vol. 2, No. 10, May 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

VRANA, J.

Interesting stories about glasses. p. 62.

(Jemma Mechanika A Optika. Vol. 2, no. 2, Apr. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

BIGISTE, VI.; VRANA, J.

Second European Symposium on Vacanum. Sklar a keremik 13 no.9:
250-251 S¹63.

POKORNY, Jan, inz. CSc.; VRANA, Jan, inz.; ZAJIC, Jiri. inz. CSc.

Bleeching purified cotton seed fat acids. Pt.2. Prum potravin 16 no.1:43-44 Ja '65.

1. Higher School of Chemical Technology, Prague. Submitted June 6, 1964.

VRANA, J.; JORDA, V.; GIKALOVOVA, I.; VYHYDAL, M.

Problems and differential diagnosis of schouterecus notules in joint diseases. Pyslat. vecto. 43 no.2/105-107 Mr 365

1. III. intermi klimi i (prednosta - prof. ir. V. Felikam) . dermotologicka klimika prednosta - prof. dr. G.Lejhanec) lekarske fakulty Palackeho University v (Domouci.

Internal Medicine

CZECHOSLOVAKIA

UDC 615-003.826:616.153.922.01

VRANA, J.; VYKYDAL, M.; PEGRIMOVA, E.; 3rd Internal Clinic, Medical Faculty, Palacky University (III. Interni Klinika Lek. Fak. PU), Olomouc, Chief (Prednosta) Prof Dr V. PELIKAN.

"Hypercholesterolemic Xanthomatosis."

Prague, <u>Casopis Lekaru Ceskych</u>, Vol 105, No 49-50, 9 Dec 66, pp 1383 - 1387

Abstract /Authors' English summary modified 7: Observations made by the authors during treatment of 3 patients are discussed. Two male patients suffered at the same time from an ischemic heart disease, the third patient, a woman, did not have this complication. None of the patients showed high cholesterol and blood lipid levels; this level could be controlled by diet and by drugs. Relationship between hypercholesterolemic xanthomatosis and essential hyperlipemia is discussed. 7 Figures, 3 Tables, 10 Western, 9 Czech references.

1/1

· CZECHOSLOVAKIA/Nuclear Physics - Cosmics Rays.

C.

: Ref Zhur - Fizika, No 7, 1959, 15038 Abs Jour

: Pernegr, Jaroslov; Petrzilka, Vaclav; Vrana, Jiri Author

: Institute of Physics, Czechoslovak Academy of Sciences, Inst

Charles University, Prague, Czechoslovakia

: An Interaction of Nucleons at an Energy Between 1014 and Title

10¹⁵ ev/nucleon

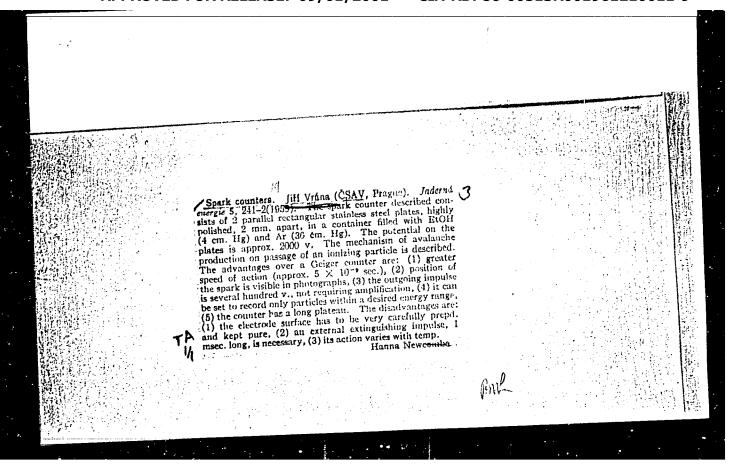
: Chekhosl. fiz. Zh., 1958, 8, No 2, 137-147, 268a Orig Pub

: In an emulsion chamber, exposed at an altitude of 33 km, Abstract

an interaction of the type $(0 + 14) \times$ was observed at an energy $(3.3 + 5.3) \times 10^{14}$ ev/nucleon. Along the axis of

the "jet" there was observed a second interaction with very small multiplicity ($n_s = 3$ or 4), probably caused by another nucleon of a primary \propto particle.

Card 1/2



8(5) AUTHORS:

Vrana. J., and Zaverka, O.

TITLE:

A Simple Saw Tooth Generator

Sdělovací Technika, 1959, Nr 6, pp 215-217 (Czecho-

CZECH/14-59-6-13/60

slovakia)

ABSTRACT:

PERIODICAL:

This is a description of a simple generator of saw tooth waves whose output voltage does not depend on the wave frequency. Saw tooth voltage is obtained by a graduel charging of the capacity over a high resistance and an sudden discharging over a low resistance. For the discharging, a diode is used, composed of a grid and a triode cathode. In figure 1 the anode characteristics of a system of double triode 6CC31 are shown, from which the value of the resistance of the diode generated between the grid and the triode's cathode may be obtained. This resistance is usually 200-300 \(\text{Q}. \) In figure 5, the connection system is pre-

sented of the saw tooth generator. The triode (1/2 60031) has the characteristics mentioned in graph Nr 1, V₂ is a terminal electron 6L31. Originally, this

Card 1/2

A Simple Saw Tooth Generator

CZECH/14-59-6-13/60

generator was drafted for frequencies up to 20 Kc/s but it can operate with much higher frequencies as well. The resistance must be of several hundreds well. The resistance must be of several hundreds of the resistance must be of several hundreds. At a low resistance, the generator stops oscillating. It is possible to simplify still more this generator by using modern combined electrons as for instance ECF82. A synchronization of the generator is easily achieved by bringing synchronizing voltage on the first grid of the electron V2. The generator can also be used in oscilloscopes. A peak output voltage of 50 V can be achieved, it may be lowered by using an amplifier. The output voltage of the generator is asymmetrical. The output voltage of the generator is asymmetrical. In a supplement to this article, the author presents the formulae for calculating the time of the active and back motion of the apparatus. There are 3 photographs, 1 graph, 1 circuit diagram and 4 references, 3 of which are Czech and 1 American.

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001 C

CIA-RDP86-00513R001961210011-9

IJP(c) EWT (1)/T SOURCE CODE: CZ/0030/65/000/011/0362/0362 L 30911-66 ACC NR: AP6022989 62 AUTHOR: Vrana, J. (Certified technician) B ORG: none TITIE: Influence of a cementing layer of Canada balsam on the quality of the optical image SOURCE: Jemna mechanika a optika, no. 11, 1965, 362 TOPIC TAGS: optic image, optic lens, fluid pressure, material deformation ABSTRACT: The article discusses the phenomenon of cemented lens deformation caused by improper pressing of the threaded ring in the objective sleeve, with the Canada balsam layer playing there the role of pressure liquid. Tests for verifying the influence of this effect on the deterioration of the image quality are described. Orig. art. has: 4 figures and 1 table. [Based on author's Eng. abst.] [JPRS] SUB CODE: 20, 17 / SUBM DATE: none 1100

ZWINGER, A., (Praha-Podoli), nabr. K. Marxe 137); VRANA, J.

A high frequency method for the determination of the tissue impendence of the cervix of the uterus. Cesk. gynek. 44 no.3: 185-191 Apr65.

1. Ustav pro peci o matku a dite v Praze (zat. reditel: doc. dr. J. Horsky, DrSc) a Vyzkumny ustav socialniho zabezpeceni v Praze (reditel: dr. L. Brejla).

FENYVES, Ervin; FRENKEL, Andor; PETRZILKA, V.; SEDLAK, J.; VRANA, J.

Investigation of high-energy electron-photon cascade in emulsion.

Koz fiz kozl MTA 7 no.4:183-188 *59. (PEAI 9:8)

1. A Magyar Tudomanyos Akademia Kozponti Fizikai Kutato Intezete, Kozmikus Sugarzasi Osztaly (for Fenyves, Frankel and Telbisz). 2. Csehszlovak Tudomanyos Akademia Fizikai Intezete, Karoly Egyetem Muszaki es Magfizikai Fakultasa (for Pertzilka, Sedlak, Vrana) (Electrons) (Photons) (Cascades)

VRANA, J.

Production calculations in building by assemblage. p. 314.

(Pozemni Stavby. Vol. 5, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

VRANA, JOSEF

Czechoslovakia/Chemical Technology - Chemical Products and Their Application.

Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62274

Author: Vrana, Josef.

Institution: None

Title: Precision Grinding and Polishing of Glass

Original

Periodical: Presne brouseni a lesteni skla, Sklar a keramik, 1956, 6, No 2,

30-33; Czech

Abstract: It is proposed to treat artificial gems by the method used in the

treatment of optical glass (for example lead glass) which should be made more precise on the basis of production investigations, while the auxiliary processes can be left partially unchanged. The materials used should be of the highest quality. Quality control of production is effected by the optical method. Bibliog-

raphy, 20 titles.

Card 1/1

GORGOL, Vaclav, inz.; VRANA, Josef, inz.

Repairing the fissures in reinforced concrete constructions by epoxy. Inz starby no.12:458-459 D '62.

1. Stavby silnic a zeleznic, n.p., Praha.

VRANA, L.

"Organization of work in transportation on state farms." II."

p. 251 (Sbornik, Rada Zemedelska Ekonomicka, Vol. 31, no. 4, Apr. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

VRAMA, L.

Organization of work in transportation on state farms.

p. 427 (Sbornik. Rada Zemedelska Ekonomika.) Vol 30 no 5 Sept 1957. Praha, Czezh.

SO: Monthly Index of East European Accessions (EEAI) LC Vol 7 nm l Jan 1953

VRANA, L.

Organization of work in transportating sugar beets by tractor.

p. 460. (Mechanisace Zemedelstvi. Vol. 7, no. 20, Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

FIZELY, Jan; VRANA, Milan; VOKROUHLICKY, Lubor Changes in oxygen tension of the cerebral cortex in hypotension induced by arfonad (preparation RO2-2222, Roche). Rozhl. chir. 36 no.91589-595 Sept 57. 1. Chirurgicka klinika VIA JEVP a katedra pathologicke fysiologie VIA JEVP v Hradci Kralove. (AUTOHOMIC DRUGS, eff. trimethaphan on oxygen tension of cerebral cortex (Cz)) (CEREBHAL CONTEX, metab. oxygen tension, eff. of trimethaphan (Cz))

REHAK, Svatopluk; VRANA, Milan

Experiments in blocking oculo-ocular reactions of intraocular pressure in experimental animals. Cesk. ofth. 14 no.5:327-331 Oct 58.

1. Ocni klinika, predmosta prof. MUDr. M. Klima, a katedra experimentalni patologie, predmosta dr. Sc. prof. MUDr. R. Vavra, VIA J. Ev. P., Hradec Kralove.

(INTRACCULAR PRESSURE, physical, pressure response of 1 eye to change in intraccular

pressure response of 1 eye to change in intractular pressure of other eye, inhib. of response by various drugs (Cz))

VRANA, M.; VOKROUHLICKY, L.; STRUAD, M.

Changes of resistance of the vascular bed of the lung. Cesk. fysiol. 8 no.3:261 Apr 59.

1. Katedra patologicke fysiologie I ek. fak. KU, Hradec Kralove.
(IUNGS, blood supply.
vasc. resist. changes perfused lung (Cz))

REHAK, Svatopluk; VHANA, Milan

Further experiences with the study of consensual pressure reactions in experimental animals. . Cosk. ofth. 15 no.2:105-110 Apr 59.

1. Ocni klinika, prednosta prof. dr. M. Klima, Katedra experimentalni patologie, prednosta Dr. Sc. prof. dr. R. Vavra, lekarske fakulty Karlovy university v Hradci Kralove.

(INTRACCULAR PRESSURE, physical.

consensual changes in exper. animals (Cz))

.

FIZHLI, Ya. [Fizeli, J.]; VRANA, M., kand.med.nauk; VOKROUGLITSKIY, L.

Changes in oxygen tension in the blood of the brain role of the vagus nerve during hypotension controlled with the aid of arfonad (RO2-2222 Rash). Khirurgiia 35 no.7:51-57 Jl '59. (MIRA 12:12)

1. Iz khirurgicheskoy kliniki (zav. - prof. Ya. Prokhazka) i kafedry patologicheskoy fiziologii (zav. - prof. R. Vavra) Voyenno-meditsinskoy akademii im. Ya.Ye. Purkin'ye d Gradtse Kralove, Chekhoslovakiya.

(AUTONOMIC DRUGS, pharmacology)
(BRAIN, blood)
(VAGUS NERVE, physiology)
(HYPOTENSION, CONTROLLED, physiology)

REHAK, Svatopluk; VRANA, Milan

Changes of intraocular pressure during forced increase of the volume of the eye in animal experiments. Experimental studies. I. Gesk. ofth. 16 no.3/4:188-196 My '60

1. Ocni klinika KU v Hradci Kralove, prednosta prof. dr. Milos Klima Katedra experimentalni patologie KU v Hradci Kralove, prednosta prof. dr. Rudolf Vavra, doktor lekatskych ved. (INTRACULAR PRESSURE, physiol.) (EYE physiol.)

VRANA Miroslay

Contribution to the treatment of extragenital climacteric disorders with a combination of estrogens and androgens. Cestk.gyn.25[39] no.10:768-770 D 160.

1. Porod.-gynek.odd. CUNZ v Humennom, prednosta dr. M.Vrana.
(ESTROGENS ther)
(ANDROGENS ther)
(CLIMACTERIC compl)

VEJBORA, O.; JOHANOVSKY, J.; VRANA, M.

Dynamics of changes in specific hypersensitivity and of the nonspecific increase in sensitivity to endotoxin in BCG-sensitized mice. Folia microbiol. 6 no.6:370-378 '61.

1. Institute of Sera and Vaccines, Prague 12.

(BCG VACCINATION) (TOXINS AND ANTITOXINS)

REHAK, Svatopluk; VRANA, Milan,

Some general problems in reactive hypertension. Cesk. ofth. 17 no.4/5: 358-368 Jl 161.

1. Ocni klinika KU v Hradci Kralove, prednosta prof. MUDr. Milos Klima Patofyziologicke oddeleni USOL Praha, reditel Dr. Sc. dr. J. Malek.

(INTRAOCULAR PRESSURE physiol)